

UNDERSTANDING THE STRESS / HEALTH CONNECTION



Stress exists in your mind — but it's also evident in your stomach, heart, muscles and even your toes. "In fact, stress may affect every cell in your body," says Ronald Glaser, Ph.D., a researcher at Ohio State University Medical School.

During stressful times, your body produces various chemicals, including cortisol, an immune-suppressing hormone. The more cortisol produced, the weaker your immune cells become and the more susceptible you are to illness.

"A one-day stressor isn't going to make a big change in your risk of getting a cold, for example," says Dr. Glaser. "But a chronic stressor that lasts a few weeks could dampen your immune response and create a risk of disease."

Migraine headaches, sleep disorders, backaches, skin rashes, fatigue, irritability, headache, depression, worry, mood swings, chest pain, anxiety, upset stomach, ulcers, and high blood pressure are common reactions to stress.

By gaining a better understanding of the stress/disease connection, you can reduce your stress and, in turn, improve your health and well-being.

Keeping stress in check

No one can avoid all stress — and a certain amount actually is good for you. But it's best to keep unhealthy levels in check.

The following steps can help you control everyday stress:

- Recognize your stress signals. Once you're aware of your stressors, you'll have a better idea of when you're stressed and can take steps to reduce them.
- Notice when you're most vulnerable to stress and prepare yourself. Are you most affected in the mornings? On Mondays? In the winter?
- Exercise. Aerobic workouts — walking, cycling, swimming, or running — can release pent-up frustrations while producing endorphins, brain chemicals that counteract stress.
- Eat a healthful diet. A balanced diet can help stabilize your mood.
- Communicate with friends and family. Social ties relieve stress and contribute to a positive attitude.
- Spend time enjoying your hobbies. Doing so allows you to focus on a pleasurable activity instead of your problems.
- Try relaxation techniques. Meditation, creative imagery, visualization, deep-breathing exercises, yoga, and listening to relaxation tapes can help you relax.
- Learn to set limits. Don't agree to unnecessary, stressful obligations.

- Get enough sleep. Stress interferes with relaxation, making it hard to get a good night's sleep, which can lead to fatigue and a reduced ability to cope. To get the best sleep possible, try to go to bed and wake up at the same time every day.
- Steer clear of caffeine. Caffeine can add to your anxiety, making you feel even more stressed.



- Avoid alcohol and drugs. Using alcohol or other drugs to relieve stress only masks symptoms and can worsen stress in the long run.
- Learn something new. The excitement of learning something new, such as how to speak a different language or play a musical instrument, can make your worries seem far away.
- Take a breather. Stressful situations can make you breathe more shallowly or hold your breath. When you have to relax fast, belly breathing can be done in seconds. To do it: Concentrate on making your abdomen move out as you inhale through your nose, then in as you exhale. Using imagery as you belly breathe can help you further deepen and slow the pace of your breathing. As you inhale, close your eyes and imagine the air swirling into your nose and down into your lungs. As you exhale, imagine the air swirling back out again.

Combating serious stress

"In combating serious stress, you should first carefully appraise the seriousness of the situation and the adequacy of your coping resources," says Kenneth B. Matheny, Ph.D., A.B.P.P., director of counseling psychology at Georgia State University in Atlanta.

When faced with a highly stressful event in your life — perhaps the death of a loved one, a life-threatening illness or a serious financial loss — the following strategies will help you cope:

- Avoid unnecessary changes in your life. Instead, reserve what energy you do have for dealing with the stressor at hand. If possible, stabilize your work and home environments while working out the primary problem.
- Quiet your mind. In times of stress, the mind makes things seem worse than they are by creating endless versions of impending disaster. Because the body can't tell the difference between fact and fantasy, it responds with heightened physical response.
- Keep in the present. You can calm both your mind and body by keeping your mind in the present, which is seldom as stressful as an imagined future or regrettable past. To keep your mind in the present, focus your attention on your breathing, a sound or visual pattern, a repetitive movement, or meditation.
- Courageously and aggressively face the stressor. Resist any temptation to ignore the stressor. Instead, carefully appraise the seriousness of the problem without magnifying it out of proportion. In addition, confirm your view of the stressor by talking with others. Make a special effort to speak to family, friends, or co-workers who have dealt with similar experiences.
- Take inventory of your coping responses. Confidence is a valuable ally in combating stress, and it builds on memories of past successes. Review successes you've had with other stressful life situations. Recall some of the specific things you did to cope.
- Take action. Commit yourself to a reasonable course of action to deal with the stressor. Action is a powerful stress-reducer. Research shows the body lowers its production of epinephrine, a powerful stress hormone, when a person shifts into action.
- Take time out to relax. At least once or twice a day, take time to decompress by relaxing — perhaps by listening to soothing music, taking a walk, gardening, reading, or exercising.

THE FIRST STEP: DISCUSSING THE NEED FOR LONG-TERM CARE

If you need long-term care, you may find it hard to raise the topic with others because it seems like a blow to your self-esteem — a subject that means you are really "old." You may also be reluctant to begin the process of giving up some of your independence or surrendering full control over your life. If you know you will need the help of your family, you may hesitate to raise the subject because you don't want to become a burden.



On the other hand, if you believe that someone else — a family member or other loved one — is in need of care, you may be reluctant to bring up the subject because it may seem like a challenge or an insult. Also, within the family there may be anxiety, guilt, and wide differences of opinion about what care is needed and who should provide it. The first step in getting necessary care is to overcome this reluctance to talk about it.

Getting Help From Others

To get the discussion underway and stay on the right track, it is often best to look outside the family. An unrelated person can sometimes soothe ruffled family feathers, present a neutral opinion, and offer solutions the family might not know about. Also, you and your family members may find it easier to reveal fears and other feelings to an outsider than to an involved family member.

Here are some people who can help you begin to evaluate long-term care needs:

- Your personal physician is often a good place to start, not necessarily to moderate discussions but to define medical needs and refer you to others who may be helpful in making care arrangements.
- Traditional word-of-mouth is still one of the best ways to begin tackling any new problem. Friends and neighbors whose opinions you trust, and who may have already faced similar situations, are often a good source of information. The people at your local senior center may also know of sources for long-term care assistance. These word-of-mouth sources often let you know of "unofficial" personal care aides who would not be available through more formal channels.
- A clergy member may be able to help directly or to refer you and your family to professionals who can introduce alternatives and coordinate planning.
- County family service agencies, Area Agencies on Aging, or other senior information and referral services are experienced sources that can provide direct access to specific care providers and help you develop an overall care plan. These agencies can direct you to a counselor or social worker who specializes in long-term care for elders and can help you begin your discussions and planning.
- If residence in a nursing facility is not absolutely necessary, many people make use of the services of a professional geriatric care manager to see what at-home and other supportive services are available and to organize care from different providers.
- If your loved one has Alzheimer's disease or a similar mental impairment, you can turn to organizations that specialize in this disease.

Assessing Medical Needs

Because a specific physical or mental condition often leads to the need for long-term care, one of the first things to do is get professional advice both about the need for immediate care and about likely changes in the condition over time.

Talk first with your primary care physician; he or she may refer you to a geriatric specialist for further consultation. If you are not completely comfortable with the physician's assessment, seek a second opinion.

Another excellent resource to help you assess medical and personal care needs is a geriatric screening program. Local hospitals have them, as do community and county health centers. If you have trouble finding a geriatric screening program, check with the county social service agency or local Area Agency on Aging, or call the senior referral number in the white pages of the phone book.

Assessing Personal Needs and Capabilities

You will also have to figure out what sort of personal, non-medical care is needed and what aspects of daily life the elder can still manage without outside assistance. The need and ability to care for oneself is not simply a matter of physical competence. Often, it depends just as much on personality and emotional state. So don't just consider what kind of care is needed and whether providers are available and affordable. The ultimate decisions should also depend on how important it is to the elder to remain in control of his or her own life.

Some people fiercely hold on to personal independence and privacy. For these people, it may be important to stay at home and receive only minimal outside assistance (if they also have the ability to organize, manage, and pay for individual programs to meet their specific needs).

Others may be willing to have an outside agency organize a more comprehensive care program, as long as they or their family members remain in primary control of daily life. For these people, an agency-directed program of home care in a family residence or in secured housing, perhaps combined with adult daycare, may be the best option, especially if family members are willing to give additional assistance.

Still other people prefer the security and ease of complete care organized and provided by others. For them, a residential care facility may be best, even though they may not physically require the high level of care offered there.

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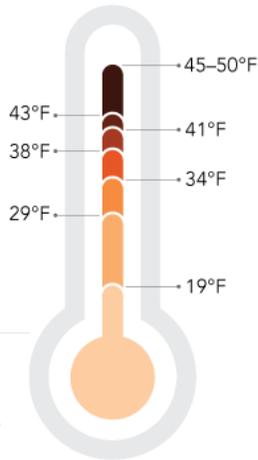
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SAFETY IN THE SUMMER HEAT

CARS GET HOT FAST

One study conducted in 2002 found that the temperature inside an enclosed car rose 19°F in just 10 minutes. Researchers found that 80 percent of the temperature rise occurred in the first 30 minutes, and that cracking windows was not effective at reducing or delaying the temperature rise.



- 10 minutes
- 20 minutes
- 30 minutes
- 40 minutes
- 50 minutes
- 60 minutes
- 1 to 2 hours

Keep People and Pets Safe in the Heat

Never leave a living thing unattended in a motor vehicle! Heat related motor vehicle emergencies are entirely preventable, see below for ways to keep your loved ones safe.

NEVER Leave Children or the Elderly Alone in a Car

Never leave children or an elderly person unattended in the car, even to run a quick errand. A child's body can heat up five times faster than an adult's and even in cooler weather, cars can heat up to dangerous temperatures very quickly. In as little as three minutes in the sun, a car's interior temperatures can heat up from 78 to 100 degrees, putting your loved ones in danger of hyperthermia or heatstroke. On a mild day, the temperature inside a car can rise 20 degrees above the outside temperature in just 10 minutes or less.

- Make a habit of checking your vehicle before leaving it. Look before you lock!
- When a child is missing, check vehicles and car trunks early in your search.
- Keep vehicles locked at all times even in the garage or the driveway to ensure kids don't get in on their own. Keep car keys and/or keyless remote openers out of the reach of children.
- Create a reminder for yourself by putting something you'll need in the back seat of your car next to your child like your cell phone, handbag, employee ID or brief case, etc...

If you ever see a child or an elderly person alone in a car, get involved. If they are hot or seem sick get them out as quickly as possible. Call 9-1-1 or your local emergency number immediately!

Don't Forget Our Furry Friends

Never leave pets unattended in the car, even to run a quick errand. Pets can suffer serious injuries when left in a hot car for only 15 minutes. Keep in mind that pets maintain a higher body temperature than humans and can't cool down as efficiently. Your pet can suffer heat related injuries like hyperthermia and heatstroke.

- **Know before you go!** If you are driving to a destination where you cannot bring your pet inside with you, don't bring them in the first place! Leaving them alone in a hot car will only put them at serious risk.
- At restaurants use the drive-thru when possible. A drive-thru is a great way to stay in the air-conditioned car with your pets. No drive-thru? Leave pets at home!

Quick Facts

- In children, the body's ability to maintain and regulate its core internal temperature is immaturely developed, and in the elderly, the body's temperature regulation ability can be impaired due to underlying medical conditions and medications they may be taking.
- Heatstroke is the leading cause of non-collision, vehicle related deaths for children. Since 1998, an average of 38 children have been killed every year by these events. 43 children in 2013.
- Children's bodies' heat up 3 to 5 times faster than an adult's making them particularly vulnerable to these conditions.
- Your domestic pet can't cool down as effectively as humans. Unlike humans, pets don't have sweat glands over their entire body, only their noses and pads of their paws. They can only normalize their body temperatures through panting which isn't efficient under extreme conditions.
- When it's between 72 and 96 degrees outside, temperatures in enclosed vehicles can increase by 43 degrees in an hour.
- Mild heat emergencies can quickly and continually progress to severe heat exhaustion and heat stroke if left untreated

